

Title (en)
ENHANCED BACKFLOW PREVENTION IN A HEMODIALYSIS DEVICE

Title (de)
VERBESSERTE RÜCKFLUSSVERHINDERUNG IN EINER HÄMODIALYSEVORRICHTUNG

Title (fr)
PRÉVENTION AMÉLIORÉE DU REFLUX DANS UN DISPOSITIF D'HÉMODIALYSE

Publication
EP 3570904 B1 20220316 (EN)

Application
EP 18713062 A 20180119

Priority
• US 201715411606 A 20170120
• US 2018014497 W 20180119

Abstract (en)
[origin: US2018207340A1] A hemodialysis system according to an embodiment of the present invention includes a hydrochamber, and a water circuit for water to flow from an external water source into the hydrochamber via a water inlet valve. The hemodialysis system further includes a spent dialysate circuit for a disinfecting agent to flow to the hydrochamber via a recirculation valve during a disinfectant operation, and a drain valve disposed in the spent dialysate circuit. During the disinfectant operation, the hemodialysis system is adapted to replace a volume of the disinfecting agent exiting the spent dialysate circuit via the drain valve with an equal volume of water via the water inlet valve. The recirculation valve is directly connected to the hydrochamber such that in response to a pressure drop at the external water source, the disinfecting agent is prevented from backflowing through the water inlet valve.

IPC 8 full level
A61M 1/16 (2006.01)

CPC (source: EP US)
A61M 1/1629 (2014.02 - US); **A61M 1/1658** (2013.01 - EP US); **A61M 1/1668** (2014.02 - EP US); **A61M 1/1688** (2014.02 - EP US);
A61M 1/169 (2013.01 - EP US); **A61M 1/1694** (2013.01 - US); **A61M 2205/18** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 10426881 B2 20191001; **US 2018207340 A1 20180726**; AU 2018210389 A1 20190613; AU 2018210389 B2 20200409;
CA 3046245 A1 20180726; CA 3046245 C 20210406; CN 110191730 A 20190830; CN 110191730 B 20220429; EP 3570904 A1 20191127;
EP 3570904 B1 20220316; WO 2018136781 A1 20180726

DOCDB simple family (application)
US 201715411606 A 20170120; AU 2018210389 A 20180119; CA 3046245 A 20180119; CN 201880007459 A 20180119;
EP 18713062 A 20180119; US 2018014497 W 20180119